

Features :

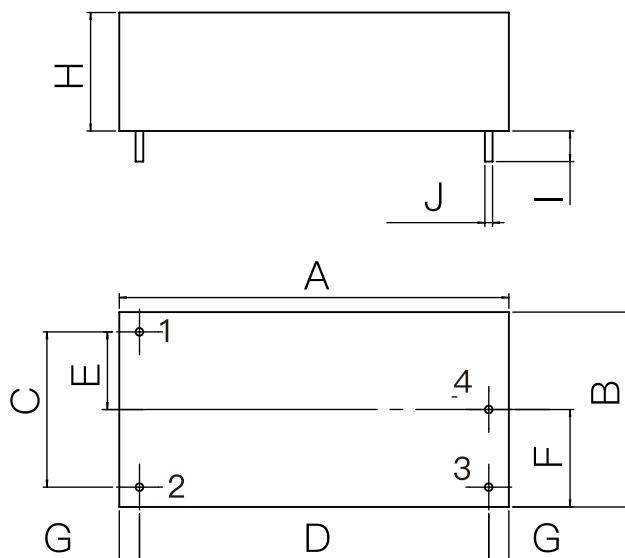
- Ultra-small volume, thickness of only 1.55cm
- Wide voltage input range:85-264Vac,100-370Vdc
- High efficiency, low ripple noise
- Multiple protection
- No load power consumption<0.1W
- 3 years warranty
- 100% full load burn-in test

Specification

MODEL		RM-20-5	RM-20-9	RM-20-12	RM-20-15	RM-20-24	
INPUT	VOLTAGE RANGE	85- 264VAC (<115VAC, reduced by 0.15W/VAC) 100- 370VDC					
	FREQUENCY RANGE	47 ~ 440Hz					
	EFFICIENCY(Typ.)	85%	84%	87%	88%	89%	
	AC CURRENT(Typ.)	350m A / 115VAC 120m A / 230VAC					
	INRUSH CURRENT(Typ.)	30 A / 230 VAC					
	LEAKAGE CURRENT	<0.1mA at 265VAC/50Hz					
OUTPUT	DC VOLTAGE	5.0V	9.0V	12V	15V	24V	
	RATED CURRENT	3500mA	2220mA	1660mA	1330mA	830mA	
	CURRENT RANGE	0-3500mA	0-2220mA	0-1660mA	0-1330mA	0-830mA	
	RATED POWER	20W	20W	20W	20W	20W	
	RIPPLE&NOISE(max.)	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	
	VOLTAGE TOLERANCE	±1.0% (±2.0% max)					
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±1.0%					
	SETUP, RISE TIME	100ms/230VAC 200ms/115VAC at full load					
	HOLD UP TIME(Typ.)	40ms/230VAC 15ms/115VAC at full load					
PROTECTION	Protection type: Over voltage、 Short circuit 、 Over load , recovers automatically after fault condition is removed						
ENVIRONMENT	WORKING TEMP	-40 ~ +70 °C (Refer to “ Derating curve”)					
	WORKING HUMIDITY	85% .RH max					
	STORAGE TEMP.,HUMIDITY	-40 ~ +85, 10 ~ 95% RH					
	TEMP. COEFFICIENT	0.03%/ (0~ 50°C)					
	VIBRATION	10-500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes					
Safety and electromagnetic compatibility	Safety standards	EN62368,IEC62368,UL62368					
	Withstand voltage	I/P-O/P:3000VAC					
	Isolation resistance	I/P-O/P: >100M Ohms/500VDC 25°C 70% RH					
	Electromagnetic compatibility emission	Parameter	Standard			Test Level / Note	
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1EAC TP TC 020,MSIP			Class B	
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1EAC TP TC 020,MSIP			Class B	
		Harmonic current	BS EN/EN61000-3-2,GB9254			Class A	
		Voltage flicker	BS EN/EN61000-3-3			----	
	Electromagnetic compatibility immunity	BS EN/EN55035					
		Parameter	Standard			Test Level /Note	
		ESD	BS EN/EN61000-4-2			Level 4, 8KV /15KV	
		RF field susceptibility	BS EN/EN61000-4-3			Level 4	
		EFT bursts	BS EN/EN61000-4-4			Level 3, 2KV	
		Surge susceptibility	BS EN/EN61000-4-5			Level 3, 1KV	
Conducted susceptibility		BS EN/EN61000-4-6			Level 4		
Magnetic field immunity		BS EN/EN61000-4-8			Level 4		
Voltage dips , interruption	BS EN/EN61000-4-11						
OTHERS	MTBF	200K hrs min. MIL-HDBK-217F(25)					
	DIMENSION	51*25.50*15.50mm					
	PACKING	10pcs/tubes 58 tubes/box box: 360*300*250mm,30g/pcs 350g/tubes 19.45kg/box					

NOTE	<p>1.The above data are measured when TA = 25 ° C, Humidity & Lt. 75% , input nominal voltage 230VAC and output rated load except for special instructions;</p> <p>2.Ripple and noise is according to this manual application circuit connection, the use of 300mm twisted–pair, bandwidth of 20MHZ measured.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4.The power supply is considered as a component in the system, which needs to be verified with the terminal equipment.</p>
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Mechanical specification

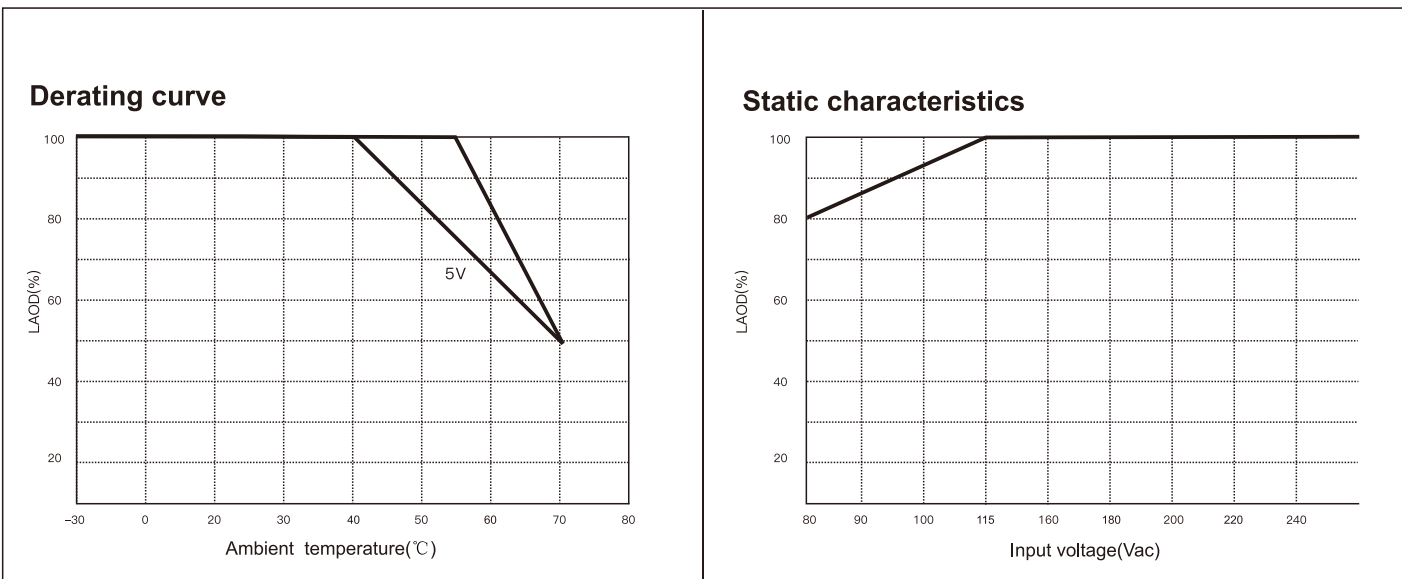


Note
 Unit: mm;
 Terminal length: $\geq 4.0\text{mm}$;
 Size of terminal section: 1.0mm
 Terminal tolerance: $\pm 0.1\text{mm}$;
 undeclared tolerance: $\pm 0.5\text{mm}$;

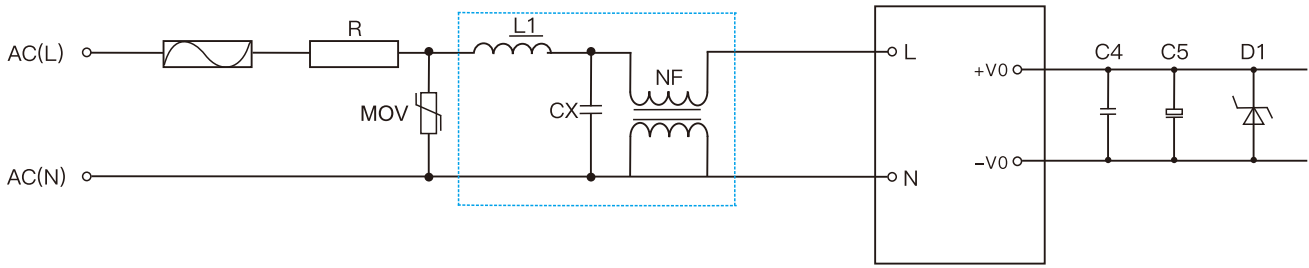
PIN NO.	Assignment
1	AC
2	AC
3	+VO
4	-VO

DIM	A	B	C	D	E	F	G	H	I	J
尺寸	51	25.5	20.32	45.72	10.16	12.75	2.64	15.5	≥ 4	1

Derating curve



Typical application



Note:

1. Output filter capacitor C5 is electrolytic capacitor, recommend using high frequency low resistance electrolytic capacitor, capacity and current flow please refer to the technical specifications provided by manufacturers. C4 to remove high frequency noise
2. In the dotted box in Figure 2 are the EMC filters that are plugged in to meet higher EMC requirements and can be dispensed with for general applications.
3. The company has the dotted line box L1, CX, NF to form a filter for customer support use, model FA01.

MODEL \ COM	FUSE	R	NF	MOV	CX	L1	C5	C4	D1
RM-20-05	T1A/250V	Recommended external NTC thermistor, mode: 10D-9	NF is a common-mode inductor with an inductance of 30MH and a current of 0.5 A.	MOV is piezoresistive and the recommended value is 14D471K	CX is safety capacitance, 104K/275V	1mH/0.5A	470uF/16V	104K/50V (Ceramic chip capacitor)	P6KE6.8A
RM-20-09							150uF/16V		P6KE16A
RM-20-12							120uF/16V		P6KE16A
RM-20-15							120uF/25V		P6KE20A
RM-20-24							100uF/35V		P6KE33A